What is CSS?
CSS stands for Cascading Style Sheets
CSS describes how HTML elements are to be displayed on screen, paper, or in other media
CSS saves a lot of work. It can control the layout of multiple web pages all at once
External stylesheets are stored in CSS files

Why Use CSS?
CSS is used to define styles for your web pages, including the design, layout and variations in display for different devices and screen sizes.

CSS Solved a Big Problem
HTML was NEVER intended to contain tags for formatting a web page!

HTML was created to describe the content of a web page, like:

<h1>This is a heading</h1>

This is a paragraph.

When tags like <font>, and color attributes were added to the HTML 3.2 specification, it started a nightmare for web developers. Development of large websites, where fonts and color information were added to every single page, became a long and expensive process.

To solve this problem, the World Wide Web Consortium (W3C) created CSS.

CSS removed the style formatting from the HTML page!

CSS Saves a Lot of Work!
The style definitions are normally saved in external .css files.

With an external stylesheet file, you can change t

he look of an entire website by changing just one file!

CSS Syntax

A CSS rule-set consists of a selector and a declaration block:

CSS selector

The selector points to the HTML element you want to style.

The declaration block contains one or more declarations separated by semicolons.

Each declaration includes a CSS property name and a value, separated by a colon.

A CSS declaration always ends with a semicolon, and declaration blocks are surrounded by curly braces.

In the following example all <p> elements will be center-aligned, with a red text color:

```
p {
    color: red;
    text-align: center;
}
```

CSS Selectors

CSS selectors are used to "find" (or select) HTML elements based on their element name, id, class, attribute, and more.

```
p {
    text-align: center;
    color: red;
}
```

The id Selector:-
The id selector uses the id attribute of an HTML element to select a specific element.

The id of an element should be unique within a page, so the id selector is used to select one unique element!

To select an element with a specific id, write a hash (#) character, followed by the id of the element.

The style rule below will be applied to the HTML element with id="para1":

```
#para1 {
    text-align: center;
    color: red;
}
```

The class Selector
The class selector selects elements with a specific class attribute.

To select elements with a specific class, write a period (.) character, followed by the name of the class.

In the example below, all HTML elements with class="center" will be red and center-aligned:

```
.center {
    text-align: center;
    color: red;
}
```

You can also specify that only specific HTML elements should be affected by a class.

In the example below, only <p> elements with class="center" will be center-aligned:

```
p.center {
    text-align: center;
    color: red;
}
```

HTML elements can also refer to more than one class
.

In the example below, the <p> element will be styl
ed according to class="center" and to class="large
":

```
<p class="center large">This paragraph refers to tw
o classes.</p>
```

Grouping Selectors
If you have elements with the same style definition
s, like this:

```
h1 {
    text-align: center;
    color: red;
}

h2 {
    text-align: center;
    color: red;
}

p {
    text-align: center;
    color: red;
}
```

It will be better to group the selectors, to minimi
ze the code.

To group selectors, separate each selector with a c
omma.

In the example below we have grouped the selectors
from the code above:

```
h1, h2, p {
    text-align: center;
    color: red;
```

```
}
A CSS comment starts with /* and ends with */. Comm
ents can also span multiple lines:
p {
    color: red;
    /* This is a single-line comment */
    text-align: center;
}

/* This is
a multi-line
comment */
-----------------------------------------------
-----------------------------------
When a browser reads a style sheet, it will format
 the HTML document according to the information in
 the style sheet.

Three Ways to Insert CSS:-
-External style sheet
-Internal style sheet
-Inline style

External Style Sheet
With an external style sheet, you can change the l
ook of an entire website by changing just one file
!

Each page must include a reference to the external
 style sheet file inside the <link> element. The <
link> element goes inside the <head> section:

<head>
<link rel="stylesheet" type="text/css" href="mystyl
e.css">
</head>

------------------------------
An external style sheet can be written in any text
 editor. The file should not contain any html tags
. The style sheet file must be saved with a .css e
xtension.
```

Here is how the "myStyle.css" looks:

```
body {
    background-color: lightblue;
}

h1 {
    color: navy;
    margin-left: 20px;
}
```

Internal Style Sheet

An internal style sheet may be used if one single page has a unique style.

Internal styles are defined within the <style> element, inside the <head> section of an HTML page:

```
<head>
<style>
body {
    background-color: linen;
}

h1 {
    color: maroon;
    margin-left: 40px;
}
</style>
</head>
```

Inline Styles

An inline style may be used to apply a unique style for a single element.

To use inline styles, add the style attribute to the relevant element. The style attribute can contain any CSS property.

The example below shows how to change the color and the left margin of a <h1> element:

The CSS background properties are used to define th
e background effects for elements.

CSS background properties:

background-color
background-image
background-repeat
background-attachment
background-position

ackground Color
The background-color property specifies the backgro
und color of an element.

The background color of a page is set like this:
```
body {
    background-color: lightblue;
}
```

Background Image
The background-image property specifies an image to
 use as the background of an element.

By default, the image is repeated so it covers the
entire element.

The background image for a page can be set like thi
s:
```
body {
    background-image: url("paper.gif");
```

Border Style
The border-style property specifies what kind of bo
rder to display.

The following values are allowed:

dotted - Defines a dotted border

dashed - Defines a dashed border
solid - Defines a solid border
double - Defines a double border
groove - Defines a 3D grooved border. The effect de
pends on the border-color value
ridge - Defines a 3D ridged border. The effect depe
nds on the border-color value
inset - Defines a 3D inset border. The effect depen
ds on the border-color value
outset - Defines a 3D outset border. The effect dep
ends on the border-color value
none - Defines no border
hidden - Defines a hidden border
The border-style property can have from one to fou
r values (for the top border, right border, bottom
 border, and the left border).

```
p.dotted {border-style: dotted;}
p.dashed {border-style: dashed;}
p.solid {border-style: solid;}
p.double {border-style: double;}
p.groove {border-style: groove;}
p.ridge {border-style: ridge;}
p.inset {border-style: inset;}
p.outset {border-style: outset;}
p.none {border-style: none;}
p.hidden {border-style: hidden;}
p.mix {border-style: dotted dashed solid double;}

}
```